

Serial No. 10/622,732
Attorney Docket No. MR1035-1282

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Claim 1 (Currently amended) A modified high-brightness flat lamp structure comprising:
a reflecting plate having a cavity formed therein, said cavity having a longitudinally extended bottom wall bounded by a plurality of sidewalls with titanium dioxide and a macromolecular polymer coated thereon;

[a plurality of] at least one UV light source[s] disposed in said cavity in a side by side longitudinally spaced relationship, wherein said at least one UV light source is a UV light tube for emitting UV light; and

a transparent substrate having opposing inner and outer walls, said inner wall being disposed in overlaying relationship with said reflecting plate, said transparent substrate forming a closure for said cavity and being coated with a macromolecular polymer and fluorescent powder, wherein the UV light emitted by said UV light source[s] is reflected by said reflecting plate for exciting said fluorescent powder to radiate high-brightness visible light from said outer wall of said transparent substrate.

Claim 2 (Original) The flat lamp structure as claimed in claim 1, wherein said titanium dioxide and macromolecular polymer is coated on respective inner surfaces of said bottom wall and said sidewalls of said cavity.

Claim 3 (Currently amended) The flat lamp structure as claimed in claims 1 and 2, wherein said reflecting plate is a reflecting plate capable of reflecting UV light.

Claim 4 (Cancelled).

Claim 5 (Original) The flat lamp structure as claimed in claim 1, wherein said

Serial No. 10/622,732

Attorney Docket No. MR1035-1282

macromolecular polymer and fluorescent powder is coated on said inner wall of said transparent substrate.

Claim 6 (Original) The flat lamp structure as claimed in claim 1, wherein said macromolecular polymer and fluorescent powder is coated on said outer wall of said transparent substrate.

Claim 7 (Currently amended) The flat lamp structure as claimed in claim 1, wherein said UV light source is a [sources are] UV lamp tube[s].

Claim 8 (Currently amended) The flat lamp structure as claimed in claim 1, wherein said UV light source is a [sources are] UV light-emitting diode[s].

Claim 9 (Original) The flat lamp structure as claimed in claim 1, wherein said transparent substrate is made of polymethyl methacrylate (PMMA).

Claim 10 (Original) The flat lamp structure as claimed in claim 1, wherein said transparent substrate is made of polycarbonate (PC).

Claim 11 (Original) The flat lamp structure as claimed in claim 1, wherein said transparent substrate is made of polyethylene terephthalate (PET).

Claim 12 (Original) The flat lamp structure as claimed in claim 1, wherein said transparent substrate is made of quartz glass.

Claim 13 (Original) The flat lamp structure as claimed in claim 1, wherein said transparent substrate is made of sodium-containing glass.

Claim 14 (Original) The flat lamp structure as claimed in claim 1, wherein said transparent substrate is made of boron-containing silicate glass.

Claim 15 (Original) The flat lamp structure as claimed in claim 1, wherein said transparent substrate is made of lead-sodium-silicate glass.

Serial No. 10/622,732
Attorney Docket No. MR1035-1282

Claim 16 (New) The flat lamp structure as claimed in claim 1, wherein said at least one UV light source is a phosphor-free UV light tube emitting UV light by gas discharge.

Claim 17 (New) A modified high-brightness flat lamp structure comprising:
a reflecting plate having a cavity formed therein, said cavity having a bottom wall
bounded by a plurality of sidewalls;
at least one UV light source disposed in said cavity in a side by side spaced relationship,
wherein the UV light source is a UV light tube for emitting UV light, and
a transparent substrate forming a closure for said cavity and being coated with fluorescent
powder, wherein the UV light emitted by said at least one UV light source is reflected by said
reflecting plate for exciting said fluorescent powder to radiate high-brightness visible light.